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Sand's Levels Plumbs and Tools



CATALOG
1930 Edition

Sand's Level & Tool Co.

8629-37 Gratiot Avenue

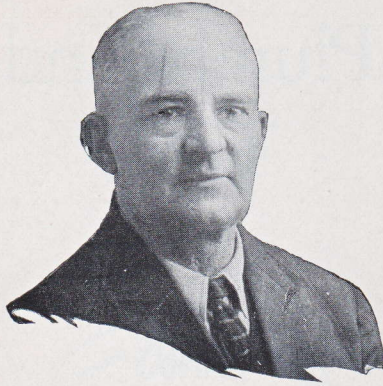
DETROIT

MICHIGAN

U. S. A.

Printed in U. S. A.

S a n d ' s L e v e l s T e l l T h e T r u t h



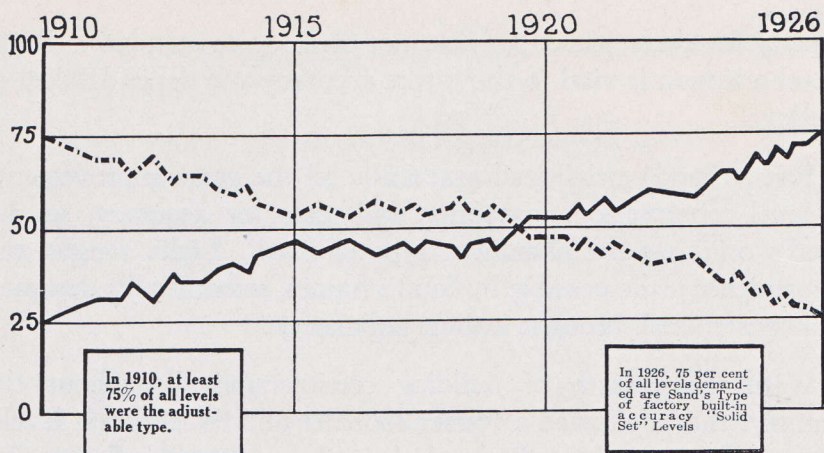
JULIUS SAND, the inventor of Sand's levels, is a practical Union bricklayer. He is still a member in good standing of the B. M. & P. I. U. local No. 2 of Detroit. While working at his trade he studied the needs of his fellow workmen with the purpose of designing and building a level that would make their daily work lighter and easier. Back in the nineties he conceived the idea of the combination plumb and level, to which later he added the idea of the boxed in type of protecting glasses for the spirit tubes or vials of plumbs and levels.

Here was laid the foundation for what today is the largest exclusive level manufacturing business in the world. As indicated on the following page, the Sand's type of level with its assured "Factory built-in accuracy" easily became the world's standard.

Today, Sand's enjoy and carefully guard the enviable reputation expressed in their slogan "Sand's Levels Tell the Truth."

Sand's Level & Tool Co., Detroit, Mich., U. S. A.

Sand's Levels Tell The Truth



Growth of Sand's Type "Solid Set" Levels

FOR fifty years practically all levels were of the adjustable type. Then in 1895, Julius Sand invented the Sand's type of "solid set" non-adjustable levels and the whole trend of buying changed.

Absolute accuracy in levels and plumbs became a surety. "Factory built-in accuracy," standardized to the highest degree of perfection and carefully inspected, produced levels and plumbs that created and established a new standard.

Practically all the great developments in levels came through the development of the Sand's Level & Tool Co. Sand's introduced the clear vision and protected vials. This practically eliminated breakage. Sand's eliminated the old half moon type of vial—the Sand's type gives full vision from all angles.

Production of Sand's wood levels start with carefully selected stock, vertical grained, of the finest California Sugar Pine as a base. A rigid standard of wood selection is maintained with a fixed

Sand's Level & Tool Co., Detroit, Mich., U. S. A.

S a n d ' s L e v e l s T e l l T h e T r u t h

penalty for every piece that does not come up to standard. Rigid wood selection is vital to the future accuracy and dependability of the level.

Just as Sand's originated practically all the great improvements in level construction, inspection and tests for accuracy, so did Sand's originate the aluminum type of level. Light weight and convenience made possible by Sand's frames, scientifically designed and constructed, brought instant popularity.

With the growth of building construction throughout the country, there followed a tremendous demand for accurate levels. Many off-shoots of Sand's levels have been started. Externally, levels look much alike, consequently cheaper woods, cheaper glasses and inaccuracy have been offered the buyer as "Just as Good."

Although individual features of Sand's levels cost from 25% to 100% more to make, Sand's prices were never lower than today, due to standardization of manufacture, capacity production and wide-flung distributive methods.

The bright red or vermilion color and Sand's trade-mark identifies the "GENUINE" Sand's plumbs, levels and tools; it is a guarantee of quality in every detail of manufacture and an assurance of absolute "Factory built-in accuracy." Sand's Levels are the best for jobber and dealer to recommend and sell.



Sand's Level & Tool Co., Detroit, Mich., U. S. A.

MASONS' WOOD LEVELS



S a n d ' s L e v e l s T e l l T h e T r u t h

Masons' Wood Levels



No. 1-A—42" or 48" x $2\frac{1}{2}$ " x $1\frac{1}{4}$ " 2 Plumbs, 2 Levels, Protected glasses. Weight $2\frac{1}{2}$ lbs.
60" or 72" x 3 " x $1\frac{1}{2}$ " 2 Plumbs, 2 Levels, Protected glasses. Weight 4 lbs.



No. 3-A—42" or 48" x $2\frac{1}{2}$ " x $1\frac{1}{4}$ " 4 Plumbs, 2 Levels, Protected glasses. Weight $2\frac{1}{2}$ lbs.
60" or 72" x 3 " x $1\frac{1}{2}$ " 4 Plumbs, 2 Levels, Protected glasses. Weight 4 lbs.



No. 3-A-B-E—(Brass Ends) Same as No. 3-A except with Brass Ends



No. 7-A—(Brass Bound) 42" or 48" x $2\frac{1}{2}$ " x $1\frac{1}{4}$ " 4 Plumbs, 2 Levels, Protected glasses. Weight $3\frac{1}{2}$ lbs.
60" or 72" x 3" x $1\frac{1}{2}$ " 4 Plumbs, 2 Levels, Protected glasses. Weight 5 lbs.

SAND'S Masons' Wood Levels are made in various lengths from 42 to 72 inches of carefully selected California Sugar Pine of vertical grain and free from sap. In addition to being thoroughly air dried at the mill this lumber goes through a drying process at our plant from ten to twelve months before being used; this extra precaution prevents any possibility of warpage.

Before shipment is made, all levels are carefully inspected and checked on a Brown & Sharpe straightedge to assure absolute accuracy.

Sand's Level & Tool Co., Detroit, Mich., U. S. A.

S a n d ' s L e v e l s T e l l T h e T r u t h

Masons' Wood Levels



No. 4-A—42" or 48" x $2\frac{1}{4}$ " x $1\frac{1}{8}$ " 4 Plumbs, 2 Levels, Protected glasses. Weight 2 lbs.



No. 4-A-B-E—(Brass Ends) Same as No. 4-A except Brass Ends



No. 5-A—(Brass Bound) 42" or 48" x $2\frac{1}{4}$ " x $1\frac{1}{8}$ " 4 Plumbs, 2 Levels, Protected glasses.
Weight 3 lbs.

All Levels are finished with three coats of weather-proof paint made to our specifications.

Levels numbers 3A—3A-B-E—4A—4A-B-E—5A—7A are reversible and will plumb either end or level either edge up.

To provide added protection, all Brass Bound Masons' Wood Levels are made with raised binding.

Sand's Level & Tool Co., Detroit, Mich., U. S. A.

Sand's Levels Tell The Truth



Telling the Consumer About Sand's “Factory Built-in Accuracy”

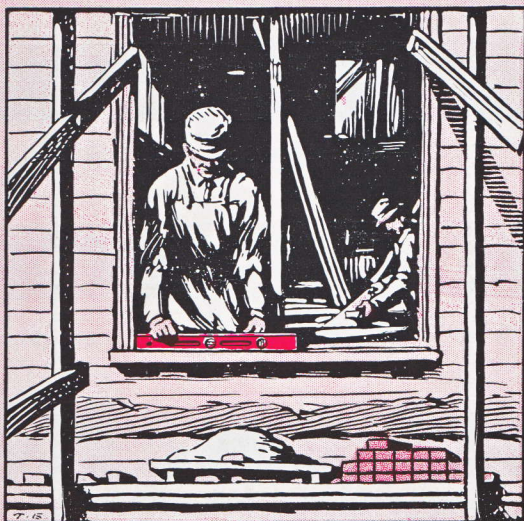
OUR sales helps and merchandising assistance, given to hundreds of jobbers, salesmen, and thousands of fine hardware dealers in addition to personal contact, includes the constant use of such consumer publications as illustrated above. The story of Sand's Factory built-in accuracy is continually being brought to the attention of bricklayers, masons, carpenters and householders, creating unlimited demand for the dealer and wholesaler.

Sand's is truly a familiar name to the level user. He knows and understands why a Sand's level, plumb or tool is most accurate and dependable. He will not select the tool of a name he does not recognize, for experience and reputation has taught him that the bright red or vermilion finish and Sand's trade mark is like sterling on silver, an unfailing guide to go by, a standard in value and price that cannot be beaten.

In every line of human endeavor, there has always been a standard. It is true of paintings, automobiles, levels, etc. Sand's is the standard and guide in the selection of levels and tools.

Sand's Level & Tool Co., Detroit, Mich., U. S. A.

CARPENTERS' WOOD LEVELS



S a n d ' s L e v e l s T e l l T h e T r u t h

Carpenters' Wood Levels



No. 677—12", 16", 18", 20" x 2½" x 1¼" 1 Plumb, 1 Level, Protected glasses. Weight 1 lb.



No. 678—24", 26", 28", 30" x 2½" x 1¼" 1 Plumb, 1 Level, Oval Top Sight, Protected glasses
Weight 1¼ lb.



No. 679—Same as No. 678 except with Brass Ends



No. 118—24", 26", 28", 30" x 2½" x 1¼" 2 Plumbs, 2 Levels, Protected glasses. Weight 1½ lbs.



No. 118-B-E—Same as No. 118 except with Brass Ends



No. 118-B-B (Brass Bound)—24", 26", 28", 30" x 2½" x 1¼" 2 Plumbs, 2 Levels,
Protected glasses. Weight 2 lbs.

Sand's Level & Tool Co., Detroit, Mich., U. S. A.

Carpenters' Wood Levels



No. 218—24", 26", 28", 30" x $2\frac{1}{4}$ " x $1\frac{1}{8}$ " 4 Plumbs, 2 Levels, Protected glasses.
Weight $1\frac{1}{4}$ lbs.



No. 218-B-E—Same as No. 218 except with Brass Ends



No. 218-B-B (Brass Bound)—24", 26", 28", 30" x $2\frac{1}{4}$ " x $1\frac{1}{8}$ " 4 Plumbs, 2 Levels,
Protected glasses. Weight $1\frac{3}{4}$ lbs.

SAND'S Carpenters' Wood Levels are made in various lengths from twelve to thirty inches of carefully selected California Sugar Pine of vertical grain and free from sap. In addition to being thoroughly dried at the mill, all lumber goes through a drying process at our plant from ten to twelve months before being used, as this extra precaution prevents any possibility of warpage.

Before shipment is made all levels are carefully inspected and checked on a Brown & Sharpe straightedge to assure absolute accuracy.

All levels are finished with three coats of weather-proof paint made to our specifications.

Levels Numbers 118, 118-B-E, 118-B-B, 218, 218-B-E, 218-B-B are reversible and will plumb either end, or level either edge up.

To provide added protection, all Brass Bound Carpenters' Levels are made with raised binding.

The Importance of Sand's Policy to Jobber and Dealer

Outside of technical reasons, which refer to constructive details, there are some basic fundamentals of business policy that we give herewith for your consideration.

- (1) Practically every good hardware jobber has Sand's wood and aluminum levels in stock ready for immediate shipment.
- (2) The Sand's line is broad, complete, a specialized line, both wood and aluminum, for carpenters, masons, also for household and farm uses, including 60" and 72" mason wood levels, bound and unbound, and line levels for contracting and construction road work.
- (3) This complete jobbing service affords the retailer a quick and constant contact with the Sand's line. Service overnight from any jobber. Quick turnover. Our price sheet is a stable one. Our definite selling policy and suggested retail prices assure greater stability of margin or profit for both dealers and jobbers.
- (4) Sand's Levels are known to the carpenter, mason, bricklayer, mechanic, artisan and householder thru our constant national advertising in publications reaching these classes. Jobbers, dealers or salesmen visiting Detroit, or touring, are invited to visit our factory and see how "**factory built-in accuracy**" *Levels* are made and why "**Sand's Levels tell the truth.**"



ALUMINUM
LEVELS
MILLWRIGHTS'
CARPENTERS'
MASONS'



Carpenters' Aluminum Levels



No. 18—18" x 2¼" x 1⅛", 4 Glasses, 2 Plumbs, 2 Levels, Protected glasses. Weight 1¾ lbs.



No. 24—24" x 2¼" x 1⅛", 6 Glasses, 4 Plumbs, 2 Levels, Protected glasses. Weight 2 lbs.



No. 26—26" x 2¼" x 1⅛", 6 Glasses, 4 Plumbs, 2 Levels, Protected glasses. Weight 2⅛ lbs.



No. 28—28" x 2¼" x 1⅛", 6 Glasses, 4 Plumbs, 2 Levels, Protected glasses. Weight 2¼ lbs.



No. 30—30" x 2¼" x 1⅛", 6 Glasses, 4 Plumbs, 2 Levels, Protected glasses. Weight 2⅜ lbs.

Note:

Nos. 18, 24, 26, 28, 30—Carpenters' Aluminum Levels also furnished with "V" or grooved edge when specified.

SAND'S Carpenters', Millwrights', and Masons' aluminum levels are constructed of an alloy made to our own special formulae producing a casting of great strength, durability and lightness of weight. The frames are scientifically designed and constructed to place additional strength where most needed.

S a n d ' s L e v e l s T e l l T h e T r u t h

Millwrights' Aluminum Levels



No. 6-V—6" x 2" x $\frac{7}{8}$ " 4 Glasses, 2 Plumbs, 2 Levels, Protected glasses. Weight $\frac{3}{4}$ lb.



No. 9-V—9" x 2" x $\frac{7}{8}$ " 4 Glasses, 2 Plumbs, 2 Levels, Protected glasses. Weight $\frac{7}{8}$ lb.



No. 12-V—12" x 2" x $\frac{7}{8}$ " 4 Glasses, 2 Plumbs, 2 Levels, Protected glasses. Weight 1 lb.

Note:

Nos. 6-V, 9-V, 12-V—Are always furnished with "V" or grooved edge for leveling shafting, etc.

Masons' Aluminum Levels



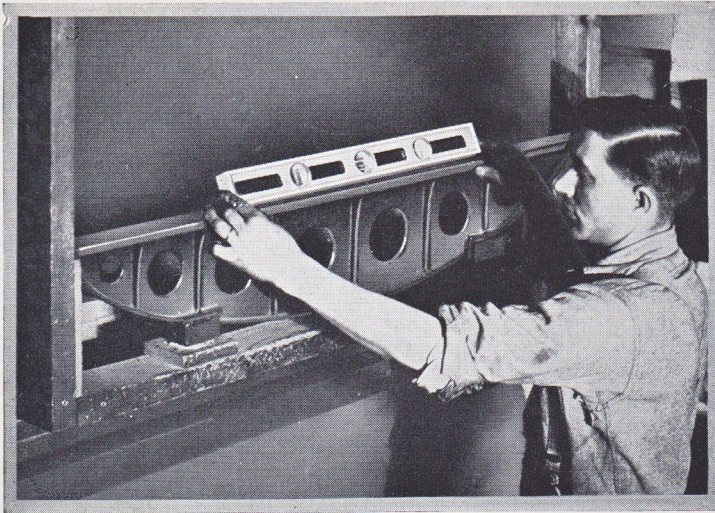
No. 42—42" x $2\frac{1}{4}$ " x $1\frac{1}{8}$ " 6 Glasses, 4 Plumbs, 2 Levels, Protected glasses. Weight $3\frac{1}{2}$ lbs.
All Aluminum Levels will plumb either end or level either edge up

Each Level is milled and ground to micrometrical precision, thoroughly inspected and checked on a Brown & Sharpe straightedge before shipping, thereby assuring absolute "factory built-in accuracy."

In addition to our trade mark, all aluminum levels are painted a bright red or vermilion on the leveling faces to identify them as genuine Sand's.

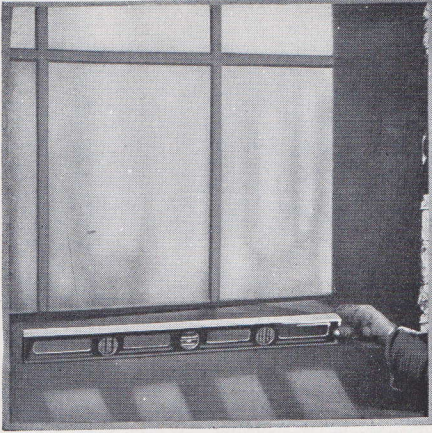
Sand's Level & Tool Co., Detroit, Mich., U. S. A.

What Is The Most Severe Test To Which A Level Can Be Put?



AFTER a Sand's Level has been milled or jointed, the working faces are paralleled to a B & S Steel Straightedge, as illustrated above, and the vials are set. Sand's proves the vials to the level. By so doing, Sand's has made it possible for the level to be rocked from 0° to 35° before the bubble in the vials will move from within the graduation marks. Illustrating a practical use of this principle, note the angle of level

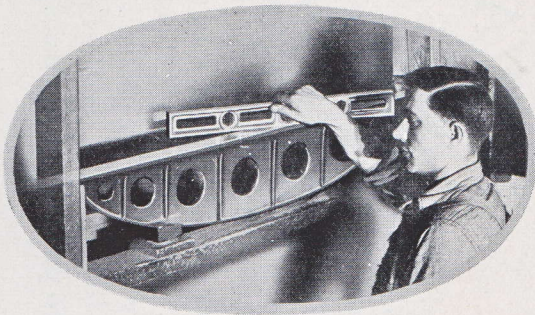
S a n d ' s L e v e l s T e l l T h e T r u t h



on sloping window sill as it is pictured here. It illustrates clearly how the bubble in the vial of a Sand's Level remains between the graduation marks with deadly accuracy even when the level is used on a 35° angle. Every Sand's Level must respond to this test.

Sand's vials are more sensitive and accurate than ordinary "bent" vials because they are drawn to the true arc of a circle.

The vials of a Sand's Level are proved by this rocking test. Every level must work from 0° to 35° before the bubble moves from between the graduation marks. Every Sand's Level must stand this test, many levels will not. Superficially ordinary levels are accurate but when measured by these high standards of the Sand's test they fail.



Another feature that insures the highest degree of accuracy in Sand's Levels is that they are ground slightly concave, not to exceed $3/1000$ degrees, to prevent what is known as a "belly" forming. If a level is perfectly straight it will swing on its own belly, as illustrated.

Sand's Level & Tool Co., Detroit, Mich., U. S. A.

WARRANTY

¶ Sand's products are made from the finest materials available. ¶ All Levels are checked on a Brown & Sharpe straightedge in addition to other tests and inspections we make just before shipment, to assure the "Factory built-in accuracy." ¶ We guarantee that every Sand's product is free from defects of material or workmanship and that we will replace free of charge any product found so defective. ¶ In fairness to ourselves we cannot guarantee a product that has been in use and becomes defective through mishandling or abuse. Such products will not be replaced but any repairs will be made at factory cost. ¶ All goods whether for replacement or repair should be taken to the dealer for shipment to the factory prepaid, securely packed so as to prevent further damage.

MASONS'
TOOLS
 AND
SPECIALTIES



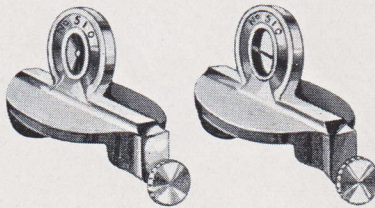
Sand's Levels Tell The Truth



Walnut Torpedo Level

No. 509—9" x 1 $\frac{1}{4}$ " x $\frac{9}{16}$ " 1 Plumb, 1 Level. Weight $\frac{1}{4}$ lb.

Made of Walnut, fitted with Aluminum plate and top sight, rounded corners. A tool of many uses, conveniently carried in the pocket. Packed in attractive counter display carton. Half dozen to the box.

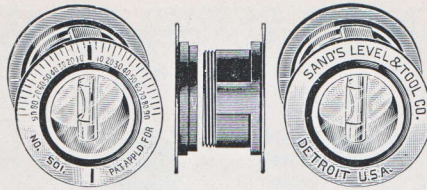


No. 510—Level Sights

These sights are die cast, therefore absolutely accurate, and are a convenient means for leveling from one given point to another, at a long distance away. One set in a box.

Sand's Level & Tool Co., Detroit, Mich., U. S. A.

S a n d ' s L e v e l s T e l l T h e T r u t h

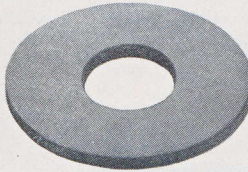


No. 501—90 Degree Straight Edge Level Case

Sand's die cast aluminum cases are quickly detachable and adjustable. Can be used in straight edge from 1 to 1 $\frac{1}{8}$ " thick, any length, by drilling a hole 1 $\frac{3}{4}$ " in diameter and inserting. When fastened to straight edge they are dust, dirt and waterproof. Can be used for plumbs as well as levels. By using the graduations on the outer rim, the case may be turned to any degree-angle to plumb or level with accuracy. Invaluable for work on roofs, staircases, etc.



No. 500 same as No. 501 with the exception that it has no graduations



No. 505—Callus Preventer

Made of the finest grade of India Sponge Rubber.

Plasterers' Aluminum Darbies



No. 530—44" x 3 $\frac{1}{2}$ " Weight 2 $\frac{3}{4}$ lbs.

Special alloy No. 8 gauge sheet aluminum polished. Handle and rib detachable.

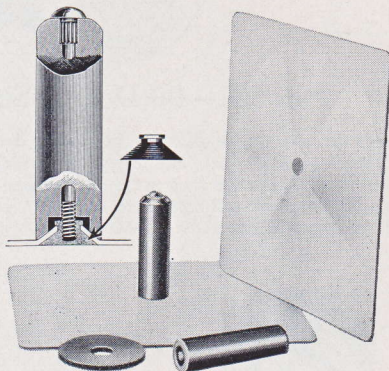
Sand's Level & Tool Co., Detroit, Mich., U. S. A.

S a n d ' s L e v e l s T e l l T h e T r u t h

SAND'S IMPROVED FLANGELESS HAWK

PATENT PENDING

Made of standard 12 gauge "SANTEX" Aluminum a special analysis which properties have a greater tensile strength. The special construction of this hawk *WITHOUT A FLANGE* is an innovation in manufacture and makes it stronger in every respect. Special phosphor bronze nut (non-corrosive) securely locked into plate, 5" x 1 $\frac{1}{8}$ " detachable handle, rust-proof bolt, fluted to prevent turning. When assembled the special angles of plate and nut form a positive tie securely fastening the handle to the plate, which has rounded corners—undercut scoring—preventing mortar or plaster slipping from hawk.



Plasterers' Aluminum Hawks

No. 520—13 " x 13 "Weight 2 lbs.
No. 521—13 $\frac{1}{2}$ " x 13 $\frac{1}{2}$ "Weight 2 $\frac{1}{4}$ lbs.
No. 522—14 " x 14 "Weight 2 $\frac{1}{2}$ lbs.



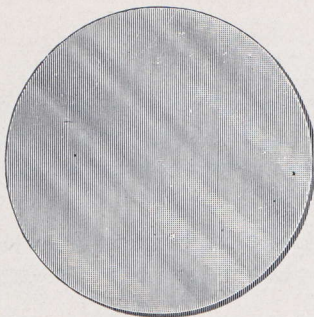
Proved Level and Plumb Glasses

Individual sizes, 1" to 4 $\frac{1}{2}$ ", packed 1 dozen to the box.
Assorted sizes, 1 $\frac{1}{4}$ " to 3", packed 1 dozen to the box.

Sand's Level & Tool Co., Detroit, Mich., U. S. A.

Sand's Levels Tell The Truth

Protecting Lenses



Good, clear, heavy glass, accurately cut to fit both oblong and round hole type levels.

Sand's—Stevens Line Levels

Made of Aluminum, light in weight, absolutely accurate. A handy level for the Machinist, Millwright, Carpenter and Electrician, particularly adapted for road and highway construction, in excavation and survey work.



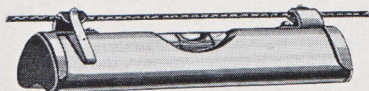
No. 550—Line Level

Reverse clips prevent level from falling off line. Weight $\frac{1}{2}$ oz.



No. 551—Pocket Surface Level

"V" or grooved bottom, for leveling small size shafting, tubing, pipe and conduit. Weight $\frac{3}{8}$ oz.



No. 552—Comb. Line and Surface Level

Attached with patented spring clips, can be used either with line or on flat or circular surfaces for leveling. Weight $\frac{5}{8}$ oz.

Sand's Level & Tool Co., Detroit, Mich., U. S. A.

Quality

For thirty-five years Sand's Levels have been famous for accuracy and quality. If this company has had shortcomings in the past, neither shoddy material nor faulty workmanship has ever been one of them.

Sand's Levels are made by expert level makers from the best materials we can find. The plant is the most up-to-date level factory in America.

We safeguard the quality of our product because we know that in the long run our success depends absolutely upon it.

Tests and Inspection

From raw material to finished product, every step in the manufacture of Sand's Levels is checked and controlled by Brown & Sharpe Straightedges.

Our entire factory force is under the personal supervision of Edward A. Sand, and more than 10% of this organization is employed in the inspection department under the direction of Robert J. Sand. Both these pioneers of Level manufacture, who with their father Julius Sand, Sr., originated the Sand's type level, have been important factors in the Sand's organization since its inception.

Sand's Levels are made carefully right up to the best of our ability and shipped from our factory only when they conform to our high standard of quality and inspection.

Sand's Levels Tell the Truth

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